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UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/804,283	03/12/2001	Arvind Halliyal	F0601 7472	
7	7590 05/08/2003			
Himanshu S. Amin		EXAMINER		
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ART UNIT PAPER NUMBER

2825

DATE MAILED: 05/08/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application N .	Applicant(s)				
	09/804,283	HALLIYAL ET AL.				
Offic Action Summary	Examiner	Art Unit				
	Igwe U. Anya	2825				
Th MAILING DATE of this communication appears on the cover sheet with the correspond nce address Peri d for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)⊠ Responsive to communication(s) filed on <u>18 F</u>	ebruary 2003					
	s action is non-final.					
, <u> </u>		osecution as to the merits is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-26 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9,11-17,19-21 and 24-26</u> is/are rejected.						
7) Claim(s) 10,18,22 and 23 is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner	•					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).				
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:						
S. Patent and Trademark Office Office Action Summany Det of Paner No. 5						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 4 9, 11 17, 20, and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Hause et al. (US Patent 6166354).
- 3. Hause et al. teach an integrated system for analyzing sheet resistivity of a layer on a wafer and for controlling RTA of the layer (fig. 1), comprising heating lamps (120), sheet analyzing device (140), a feed back generator (160) that receives information to control the heating lamps as a function of the information (col. 4 lines 50 67). The feed back generator controls the heating time and heating temperature (col. 5 lines 1 13, & col. 6 line 37 -col. 7 line 7).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claims 2, 3, 19, and 24 to 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hause et al. (US Patent 6166354) in view of Aronowitz et al. (US Patent 5756369).
- 7. Hause et al. Teach the features previously outlined, but lack grid block monitoring, and a layer selected from Ti2Si2 and NiSi.
- 8 However, Aronowitz et al. teach a layer selected from Ti2Si2 and NiSi (col. 8 lines 4 30), and further disclose selective control of RTA on a grid block (col. 7 lines 14 23).
- 9. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Aronowitz et al. into the Hause et al. reference to monitor a silicide layer. Where the general conditions of a claim are disclosed in prior art provision for adjustability, where needed involves only routine skill in the art. In re Stevens, 101 USPQ 284 (CCPA 1954).

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Claims 10, 18, 22, 23 are objected to as being dependent upon a rejected claim 10. but would be allowable if rewritten in independent form.

Remarks

Applicant's arguments have been fully considered and are persuasive as 11. Meester et al. do not teach an in situ monitoring using iterative procedure. Therefore, the rejection has been withdrawn. However, upon further consideration, new grounds of rejection are made in view of the new references.

Contact Information.

Any inquiry concerning this communication or earlier communications from the 12. examiner should be directed to Igwe U. Anya whose telephone number is (703) 308-3549. The examiner can normally be reached on M - F 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on (703) 308-1323. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Igwe U. Anya

Examiner Art Unit 2825

SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 2800**

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May 2, 2003